App No.: Not Yet Assigned Do Inventor: Dawn Windsor-Hines et al. Title: INDUCING TOLERANCE IN PRIMATES

Docket No.: TLN-022

TRX1 Light Chain FIGURE 1A

ANA CCA GAA ATC CTC ATC TATC ATC TATC ATC TATC ATC								
CTG CTA TGG GTG CTG CTG CTG GTG GTT CCA GGC TCC ACT GGT GAC ATT GTG ATG TCC AT TCT CCA GTT TCT CTG GTG GTG CTG TCT CTG GTG GTT CCA GTG TTG GTT GTT GTT GTT GTT GTT GTT GT	TTG L	CAG	ACA	GGA G	S	AGT S	GCC A	
CTG CTA TGG GTG CTG CTG TG GTT CCA GGC TCC AT GGT GAT GTG ATG A	S	A O			GCC A			
CTG CTA TGG GTG CTG CTG TGG GTT CCA GGC TCC ACT GGT GAC ATT GTG ATG ACC L L M V L L L M V P G S T G D I V M T C R A S Q S V D Y C G D I V M T T R A T I N C K A S Q S V D Y D Y D G D S Y T A C T C AT C TAT GTG AAG GCC AAG GTC TAT GAT TAT GAT GAT GAT GAT AGT TAT A T I N C K A S Q S V D Y D Y D G D S Y T A T I N C K A S Q S V D Y C C A G G TT A G T T	GAT	TAT	S	TTC F		O. CAG		
CTG CTA TGG GTG CTG CTG TGG GTT CCA GGC TCC ACT GGT GAC ATT GTG ATG ACC L L M V L L L M V P G S T G D I V M T C R A S Q S V D Y C G D I V M T T R A T I N C K A S Q S V D Y D Y D G D S Y T A C T C AT C TAT GTG AAG GCC AAG GTC TAT GAT TAT GAT GAT GAT GAT AGT TAT A T I N C K A S Q S V D Y D Y D G D S Y T A T I N C K A S Q S V D Y C C A G G TT A G T T	4 P 4	TGG ×	999	4 T V	498 6	S	¥ ×	
CTG CTA TGG GTG CTG CTG TGG GTT CCA GGC TCC ACT GGT GAC ATT GTG ATG ACC L L M V L L L M V P G S T G D I V M T C R A S Q S V D Y C G D I V M T T R A T I N C K A S Q S V D Y D Y D G D S Y T A C T C AT C TAT GTG AAG GCC AAG GTC TAT GAT TAT GAT GAT GAT GAT AGT TAT A T I N C K A S Q S V D Y D Y D G D S Y T A T I N C K A S Q S V D Y C C A G G TT A G T T	rct s FR1-	AAC N	AGT S			AAC N	CAC H	
CTG CTA TGG GTG CTG CTG TGG GTT CCA GGC TCC ACT GGT GAC ATT GTG ATG ACC L L M V L L L M V P G S T G D I V M T C R A S Q S V D Y C G D I V M T T R A T I N C K A S Q S V D Y D Y D G D S Y T A C T C AT C TAT GTG AAG GCC AAG GTC TAT GAT TAT GAT GAT GAT GAT AGT TAT A T I N C K A S Q S V D Y D Y D G D S Y T A T I N C K A S Q S V D Y C C A G G TT A G T T	<b>\$</b> 0	ATG M	GGC G FR3-	ECT.	AAA K	GGT	× K	
ANG GAG ACA ACA ATC CTG TTA TGG GTG CTG TTG GG GTT CCA GGC TCC ACT GGT ATT GTG ATG ATG ATG ATG ATG ATG AT	F F	TAT Y	AGT S	GAC	ITG .	TCG (	GAG E	
ATC GAG TCT CTA GGT GAG GCC ACC ATC ATC GTG CTG CTG TGG GTT CCA GGT TCC ACT GGG ACT GTG ACT GTG ACT GGT GTG ACT GTG AC	ATG M	AGT S	FTT	CAG CDR3	CAG	CA O	Y	
ATG GAG ACA GAC ATT CTG CTG TTG TTG CTG CTG CTG TTG TTG GTT CCA GGC TCC ACT GGT GAC TATT ATG GAG TTG TTG TTG TTG TTG TTG TT	GTG V	GAT D	AGG R	CTT	GAG E	CTC	GAC D	
ATG GAG ACA GAC ACA ATC CTG CTA TGG GTG CTG CTG TGG GTT CCA GGC TCC ACT GAC GAC ACA GGC TCC ACT GG GTT CCA GGC TCC ACT GG GAC ACT GC ACT GG GTT CCA TCT GAT ACT TCT AGG TT ACT GAT ACT TCT ACT GTT GAT TT GAT ACT TCT ACT GTT GAT TT GAT ACT GTT GAT GAT GTT GAT TT GAT ACT GTT GAT TT GAT ACT GTT GAT GAT GTT GAT GAT GTT GAT GAT GTT GAT GA	ATT	GGT	GAC	AGT	GAT	30C	A A	TAG * *
ATG GAG ACA GAC ACA ATC CTG CTA TGG GTG CTG TGG GTT CCA GGC TCC ACT GT ACT GAT ACT GT ACT GAT ACT GT ACT ACT ACT GT ACT ACT ACT ACT ACT ACT ACT ACT ACT AC	GAC	GAT D	CCA	₹ o	S	AAC	AAA K	TGT C
ATG GAG ACA GAC ACA ATC CTG CTA TGG GTG CTG CTG CTG TGG GTT CCA GGC TCC ACT  M	GGT	TAT Y R1	GTC V	CAG	CCA P tant	GAT	AGC S	
ATG GAG ACA CAC ACA ATC CTG CTA TGG GTG CTG CTG TGG GTT CCA GGG TCC CTG CTG TGG GTT CCA GGG TCC TGG GTT CCA GGG TCG CTG TGG GTT CCA GGG TCG CTG TGG GTT CCA GGG TGG TGT TGT TGT TGT TGT TGT TGT TG	ACT	GAT D	999 9	TGT C C	CCG P Cons	GTG	CTG	GGA
ATG GAG ACA GAC ACA ATC CTG CTA TGG GTG CTG CTC TGG GTT CCA GGC    N	3 8	GTT V	TCT S	TAC	TTC	AAG K	ACG T	AGG R
ATG GAG ACA ATC CTG CTA TGG GTG CTG CTG TGG GTT CCA  M E T D T I L L W V L L L W V P  Leader  A V S L G E R A T I N C K A S Q  AAA CCA GGA CAG CAC ACC ATC TGT GTT GTT GTA CTA  K P G Q P P K L L I Y V A S N L  CDR2  GAC TTC ACC ACC ATC ACT TTC TG GAG GAG GAG GAT GTT  GAC TTC ACC CTC ACC ATC AAA CGA TCT CTG CAG GAG GAG GAT GTT GCA  G T K V E I K R T V A A P S V F  GTT GTG TGC CTG CTG AAA ACC TTC TAT CCC AGA GAG GCC AAA GTA CAG  V V C L L N N F Y P R E A K V Q  GTC ACA GAG GAG GAG GAG GAG GAG GAG GAG GA	ပ္ပစ္ပ	AGT S	GAG	TAT Y	ATC I	TGG W	CTG	AAC
ATG GAG ACA ACA ATC CTG CTA TGG GTG CTG CTG CTG TGG GTT   M	ξ Δ	CA.	CTA L	GTC V	TTC F	CAG	ACC T	TTC F
ATG GAG ACA ACA ATC CTG CTA TGG GTG CTG CTG TGG  M	GTT V	AGC	AAT N CDR2	GC &	GTC	GTA	AGC	AGC
ATG GAG ACA ATC CTG CTA TGG GTG CTG CTG  M	TGG ≅ ¦	300 4	TCC	GTT V	TCT	AAA	AGC S	AAG K
ATG GAG ACA ACA ATC CTG CTA TGG GTG CTG  M	CHO L	AAG K	GCA	GAT	CCA	3CC	CTC	ACA T
ATG GAG ACA ATC CTG CTA TGG GTG CTG  M E T D T I L L W V L  L G E R A T I N  AAA CCA GGA CAG CCA CCC AAA CTC CTC ATC TAT  K P G Q P P K L L I Y  GAC TTC ACC CTC ACC ATC ATC TAT  K P G Q P P K L L I Y  GAC TTC ACC CTC ACC ATC ATC CTC ATC TAT  G T K V E I S S L Q A  GTT GTG GTG GTA AAT AAA CTA TC CC AGA  V V C L L N N F Y P R  GTC ACA GAG CAG CAG AAG GAC TAC  V T E Q D S K D S T Y  TGC GAA GTC CAT CAG GAC AGC CTG  CTG CTG CTG ATT AAA CTA TCT CTC AGA  V V C L L N N F Y P R  GTC ACA GAG CAG CAG AGG CTG CTAC  TGC GAA GTC ACC CAT CAG GAC CTG CCC  TGC GAA GTC ACC CAT CAG GAC CTG CCC  TGC GAA GTC ACC CAT CAG GAC CTG CCC  TGC GAA GTC ACC CAT CAG GAC CTG CCC  TGC GAA GTC ACC CAT CAG GAC CTG CCC  TGC GAA GTC ACC CAT CAG GAC CTG CCC  TGC GAA GTC ACC CAT CAG GAC CTG CCC  TGC GAA GTC ACC CAT CAG GAC CTG CCC  TGC GAA GTC ACC CAT CAG GAC CTG CCC  TGC GAA GTC ACC CAT CAG GAC CTG AGC CCC  TGC GAA GTC ACC CAT CAG GAC CTG AGC CCC  TGC GAA GTC ACC CAT CAG GAC CTG AGC CCC  TGC GAA GTC ACC CAT CAG GAC CTG AGC CCC  TGC GAA GTC ACC CAT CAG GAC CTG AGC CCC  TGC GAA GTC ACC CAT CAG CCC TAC CCC  TGC GAA GTC ACC CAT CAG GAC CTG AGC CCC  TGC GAA GTC ACC CAT CAG CCC TAC CCC  TGC GAA GTC ACC CAT CAG CCC TAC CCC  TGC GAA GTC ACC CAT CAG CCC TAC CCC  TGC GAA GTC ACC CAT CAG CCC TAC CCC  TGC GAA GTC ACC CAT CAG CCC TAC CCC CCC  TGC GAA GTC ACC CAT CAG CCC TAC CCC CCC  TGC CAC CCC CAC CCC CCC CCC CCC CCC CCC C	ត្តិក	TgC C	GTT	GAG	GCA	GAG	AGC S	GTC
ATG GAG ACA ATC CTG CTA TGG GTG  M E T D T I L L W V	CTG I	AAC	TAT Y	gcg A	GCT	AGA	TAC	ည်သ
ATG GAG ACA GAC ACA ATC CTG CTA TGG  M	GTG V Ider-	ATC	ATC	CAG	GTG	CCC	ACC	TCG
ATG GAG ACA GAC TAN  M E T D T I L L  GCT GTG TCT CTA GGT GAG AGG GCC  A V S L G E R A  AAA CCA GGA CAG CCA CCC AAA CTC  K P G Q P P K L  FR2  GAC TTC ACC CTC ACC ATC AGT TCT  D F T L T I S S  GGT ACC AAG GTG GAA ATC AAA CGA  G T K V E I K R  GTT GTG TGC CTG CTG AAT AAC TTC  V V C L L N N F  GTC ACA GAG GAC AGG GAC  V T E Q D S K D  TGC GAA GTC CAT CAG GAC  C T C C C T C C C C C C C C  TGC GAA GTC ACC CAT CAG GAC  C E V T H Q G L  TGC GAA GTC ACC CAT CAG GGC CTG  C E V T H Q G L	TGG W Lea	ACC	CTC	CTG	ACT		AGC	AGC
ATG GAG ACA GAC ACT CTG  M E T D T I L  GCT GTG TCT CTA GGT GAG AGG  A V S L G E R  AAA CCA GGA CAG CCA CCC AAA  K P G Q P P K  FR2  GAC TTC ACC CTC ACC ATC AGT  D F T L T I S  GGT ACC AAG GTG GAA ATC AAA  G T K V E I K  GTC ACA GAG CAG GAC AAG  V V C L L N N  GTC ACA GAG CAG GAC AAG  V T E Q D S K  TGC GAA GTC ACT CAG GGC  C E V T H Q GGC  C G GAA GTC ACA CAG GGC  C E V T H Q G G	Ę u	GCC A			CGA R R		GAC	CTG
ATG GAG ACA CAC ACA ATG  M	ភ្ជា	AGG R	A A	AGT	AAA	AAC	AAG K	ည္သမ္မ
ATG GAG ACA GAC ACA  M E T D T  GCT GTG TCT CTA GGT  A V S L G  AAA CCA GGA CAG CCA  K P G Q P  GAC TTC ACC CTC ACC  D F T L T  GGT ACC AAG GTG GAA  G T K V E  GTT GTG TGC CTG CTG  V V C L L  GTC ACA GAG CAG GAC  V T E Q D  TGC GAA GTC ACT  TGC CAT  TGC GAA GTC ACT  TGC CAT  TGC	ATC	GAG E				AAT	AGC S	
ATG GAG ACA GAC  GCT GTG TCT CTA  A V S L  AAA CCA GGA CAG  K P G Q  GAC TTC ACC CTC  D F T L  GGT ACC AAG GTG  G T K V  GT G GA GAG  V C L  GT ACA GAG CAG  V V C L  GT ACA GAG CAG  V V C L  GT ACA GAG CAG  V T B Q  TGC GAA GTC ACC  C E V T	Ş r	GGT	SCA P P	ACC	GAA	CTG	GAC	CAT
ATG GAG ACA  M E T  GCT GTG TCT  A V S  AAA CCA GGA  K P G  GAC TTC ACC  D F T  GGT ACC AAG  G T K  GTC ACA GAG  V V C  TGC GAA GTC  C E V	GAC D	CITA	CAG	CIC	GTG V FR4	CTG	CAG	ACC
ATG GAG  AAA CCA  AAA CCA  K P  CGT GTG  GAC TTC  D F  GGT ACC  G T  CGT ACA  V V  V T  TGC GAA  C E	T T	TCT	GGA	ACC	AAG K	TGC C	GAG	GTC V
ATG AAA AAA AAA AAA AAA AAA AAA AAA AAA	GAG	GTG V	CCA	TTC	ACC	GTG V	ACA	GAA
	ATG M	GCT	AAA	GAC	GGT	GTT V	GTC V	TGC o

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Title: INDUCING TOLERANCE IN PRIMATES

# FIGURE 1B TRX1 Light Chain Nucleic Acid Sequence

TGTGATGACCCAATCTCCAGATTCTTTGGCTGTGTCTCTAGGTGAGAGGGCCACCATCAACTGCAAG GCCAGCCAAAGTGTTGATTATGATGGTGATAGTTATGAACTGGTATCAACAGAAACCAGGACAG GCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTGGAT ATTACTGTCAGCAAAGTCTTCAGGACCCTCCGACGTTCGGTGGAGGTACCAAGGTGGAAATCAAA CGAACTGTGGCTGCACCATCTGTCTTCATCTTCCGGCCATCTGATGAGCAGTTGAAATCTGGAACT CAGCCTCAGCACACCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCG ATGGAGACAGACACAATCCTGCTATGGGTGCTGCTGCTCTGGGTTCCAGGCTCCACTGGTGACAT CCACCCAAACTCCTCATCTATGTTGCATCCAATCTAGAGTCTGGGGTCCCAGACAGGTTTAGTGG CAGTGGGTCTGGGACAGACTTCACCCTCACCATCAGTTCTCTGCAGGCGGAGGATGTTGCAGTCT AAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAG

Ilnventor: Dawn Windsor-Hines et al.

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### TRX1 Light Chain Amino Acid Sequence with CDRs Highlighted **FIGURE 1C**

### With leader sequence:

QPPKLLIY**VASNLES**GVPDRFSGSGSGTDFTLTISSLQAEDVAVYYC**QQSLQDPPT**FGGGTKVEIKR TVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSL METDTILLWVLLLWVPGSTGDIVMTQSPDSLAVSLGERATINC**KASQSVDYDGDSYMN**WYQQKPG SSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

### Without leader sequence:

FSGSGSGTDFTLT1SSLQAEDVAVYYC**QQSLQDPPT**FGGGTKVE1KRTVAAPSVF1FPPSDEQLKSGT ASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEV DIVMTQSPDSLAVSLGERATINC**KASQSVDYDGDSYMN**WYQQKPGQPPKLLIY**VASNLES**GVPDR THQGLSSPVTKSFNRGEC

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GAA	CCT	AGA R	AGT S R3	AAG K	ACC 1	ACC T	TGC C	CCT	AAG K
GCT A		ACT	GGC AGT G S	S	orig 1	ပ္ပ ဗ	40 t-	₽CC T	ეე <b>∢</b>
GGA	CAG	ATG M	GAC	S	23C	TTG 1	CAC H	990 8	N N
TCT	AGG R	ACA	999	ညည	ည္သမ္မ	AGC S	ACT	TCC	CAT
CAG O	GTG V	GTC	TCC	GCA	TCA S	AGC s	AAA ×	ATC	QTG >
GTG V	TGG	AGG R	AGA R	CTG	AAC	TCC	GAC	ATG M	GAG
CTG L	AGC	လူ ၁၉၅ ၁၉၅	) & &	CCC P	TGG W	d SSS	CC	CTC	GTG
TCC CAG GTT CAG CTG GTG CAG TCT GGA GCT S Q V Q L V Q S G A	TCA GTG AAG GTG TCC TGT AAG GCT TCT GGA TAC ACA TTC ACT GCT TAT ATA AGC TGG GTG AGG CAG GCA S V K V S C K A S G Y T F T A Y V I S W V R D A C A C A C A C A C A C A C A C A C A	GGA GAG ATT TAT CCT GGA AGC GGT AGT TAT TAT AAT GAG AAG TTC AAG GGC AGG GTC ACA ATG ACT AGA GAC G E I Y P G S G S Y Y N E K F K G R V T M T R D C DE J Y P G S G S G S S Y Y N B K F K G R V T M T R D	CTG AGG TCT GAG GAC ACT GCG GTC TAT TAC TGT GCA AGA TCC GGG GAC GGC AGT  L R S E D T A V Y Y C A R S G D G S	GGG ACA CTA GTC ACA GTC TCC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC AAG AGC ACC G T L V T V S S A S T K G P S V F P L A P S S K S T	TAC TIC CCC GAA CCG GTG ACG TCG TGG AAC TCA GGC GCC CTG ACC AGC Y F P E P V T V S W N S G A L T S	GCT GIC CTA CAG TCC TCC TCC CTC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC ACC CAG ACC	AAT CAC AAG CCC AGC AAG GTG GAC AAG AAA GTT GAG CCC AAA TCT TGT GAC AAA ACT CAC ACA TGC CCA CCG N H K P S N T K V D K K V E P K S C D K T H T C P P	CTC GCG GGG GCA CCG TCC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC	GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG D V S H E D P E V K P N W Y V D G V E V H N A K T K
GTT	GIT	TTC F	TAC	GTC V -Con	GTG V	ACC	AAA K	GAC	GAC
CAG	TAT	AAG K	TAT	TCG	ACG T	GTG V	CCC	AAG K	GTG V
TCC	GCC A	GAG	GTC	ئ الم	GTG	GTG V	GAG	ر م	TAC
CAG	ACT	AAT	900 A	ეფე ეფე	CCG	AGC S	GTT	AAA K	TGG w
GTC	TTC	TAT	ACT T	AAG K	GAA	AGC s	AA ×	CC A	AAC
GGT	ACA T	TAT	GAC	ACC	ည်သ	CTC L	AAG K	ر 200	TTC
CGA R	TAC	AGT	GAG	TCC s	TTC	TCC	GAC D	TTC	AAG K
ACT T	gg a	AGT	rcr	GCC	TAC	TAC	GTG V	CHO	GTC V
GGA	TCT	GGT G	AGG R	TCA S	TGC CTG GTC AAG GAC C L V K D	CTC	AAG K	TTC	GAG
TCA s	GCT	AGC S	CTG	TCC S	AAG K	93A	ACC T	GTC V	CCT
CTG	AAG M	gg o	CTC AGC AGC L S S	GTC V	GTC V	A.S.	AAC	TCA s	GAC
ATC	TGT C	ဂ္ဂ်	AGC S	ACA T	CTG	S	AGC s	ည် ႕	GAA
CTC	TCC S	TAT	CIC	GTC	ည်ဂ	GAG CAG	ပ္တို့	g <b>∢</b>	CAC
CTC	GTG	ATT	GAA	CTA L	ည္မမ	GTA	AAG K	999	AGC
TTT F	AAG K	GAG	ATG	ACA T	CTG	GTC V	CAC H	80g <b>4</b>	GTG
ATC I	GTG	859 g	TAC ATG GAA (	999	GCC CTG GGC T	GCT A	AAT	CTC	GAC
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ATC I	P G	TGG W	TCC ACC AGC ACA GTC T	ပ္ပစ္ပ	ACA GCG T A	STG CAC ACC TTC CCG G	TAC ATC TGC AAC GTG P	A P E	GTG GTG GTG
TGG ¥	999	GAG	AGC	TGG W N	ပ္ပိပ္ပ	ACC T	7GC 0	GC A	GTG V
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AAG K	OHO 1	GAG	GAC	TCT	
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GAG .	TAC	GAG	ACC	TCC	
AAT GGC AAG N G K	GTG V	GTG v	AAG CTC K L	CIC	
ည္သ	CAG	GCC A	AAG K	AGC	
AAT N	CCA	ATC I	AGC S	AAG AGC K	
CTG L	GAA	GAC	TAC	CAG	
TGG CTG /	CGA R	AGC GAC	557	₽ T	
GAC	OCC A	ည်	TTC	TAC	
CAG GAC	CAG	TAT CCC	TTC	AAC CAC TAC N	
EAC H	999	TTC	TCC S	AAC	
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GIC	GCC A	AAA K	GAC	CTG	
GTC CTC ACC	TCC AAA (	CTG GTC	CTG GAC TCC (	GAG GCT E A	
CIC	TCC	CIG	GAC	GAG	
GTC	ATC	73C	CTG L	CAT	
AGC S	ACC T	ACC	GTG V	ATG	
GTC	A A A	CTG	000 P	GTG	
GTG V	ATC GAG	GTC AGC V S		ည်င	
TAC CGT GTG Y R V	ATC	GTC	ACC ACG CCT T T P	TGC	
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ACG T	SCC A	AAC	AAG K	TTC	
AGC S	CC P	AAG K	TAC	GTC	
AAC	CT J	ACC	AAC	A PAC	
TAC	9cc	CTG	AAC	999	
SA O	AAA K	GAG	GAG	CAG	
GAG	AAC N	GAT	D D D	SAS O	
GAG	TCC	000 PR	CAG	TGG W	TGA * *
000 200	AAG GTC TCC AAC AAA K V S N K	CCA TCC CGG GAT GAG P S R D E	AAT GGG CAG CCG GAG N G Q P E	AGC AGG TGG CAG CAG S R W Q Q	GGT AAA TGA G K *
CCG P	AAG K	CCA P	AAT N	AGC	GGT

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### TRX1 Heavy Chain Nucleic Acid Sequence FIGURE 1E

ATGGAATGGATCTGGATCTTTCTCCTCATCCTGTCAGGAACTCGAGGTGTCCAGTCCCAGGTTCAGCTGGTGCCA TGCAACGTGAATCACAAGCCCAGCAACACCCAAGGTGGACAAGAAGTTGAGCCCAAATCTTGTGACAAAACTCA CACATGCCCACCGTGCCCAGCACCTGAACTCGCGGGGGCACCGTCAGTCTTCCTCTTCCCCCCCAAAACCCAAG TACATGGAACTCAGCAGCCTGAGGTCTGAGGACACTGCGGTCTATTACTGTGCAAGATCCGGGGGACGGCAGTC GTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACCTACATC GCCTATGTTATAAGCTGGGTGAGGCAGGCACCTGGACAGGGCCTTGAGTGGATGGGAGAGATTTATCCTGGAA GCGGTAGTAGTTATATAATGAGAAGTTCAAGGGCAGGGTCACAATGACTAGAGACACATCCACCAGCACAGTC AACAGCACGTACCGTGTGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGT SCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGGCCTC CGAACCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGTCCTACA GGTTTGTTTACTGGGGCCAAGGGACACTAGTCACAGTCTCCTCAGGCCTCCACCAAGGGCCCATCGGTCTTCCC CCTGGCACCCTCCTCCAAGAGCACCTCTGGGGGCACAGGGGCCCTGGGCTGCTGGTCAAGGACTACTTCCC GACACCCTCATGATCTCCCGGACCCCTGAGGTCACATGCGTGGTGGTGGACGTGAGGCCACGAAGACCTGAG | CAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGA GCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGGCCAAAGGGCAGCCCGAG GTCTGGAGCTGAAGTGAAGAAGCCTGGGGCTTCAGTGAAGGTGTCCTGTAAGGCTTCTGGATACACATTCACT TCCCTGTCTCCGGGTAAATGA

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### TRX1 Heavy Chain Amino Acid Sequence with CDRs Highlighted **FIGURE 1F**

### With leader sequence:

LPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGS LYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELAGAPSVFLFPPKPKDTLMIS RTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA TLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSG MEWIWIFLLILSGTRGVQSQVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEW MGEIYPGSGSSYYNEKFKGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQG FFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

### Without leader sequence:

DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPS RDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVM KPSNTKVDKKVEPKSCDKTHTCPPCPAPELAGAPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYV PSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNH KGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQGTLVTVSSASTKGPSVFPLA QVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMG**EIYPGSGSSYYNEKF** HEALHNHYTQKSLSLSPGK

App No.: Not Yet Assigned Do Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

Docket No.: TLN-022

TRX1 Light Chain FIGURE 2A

TTG	CAG	ACA	GGA G	101 s	AGT	GCC A	
TCT	CA.A	999	GGT	GCC A	GAG	TAC	
	TAT Y	TCT s	TTC	ACT T	CAG O	GTC	
CCA GAT	TGG W	999	ACG T	GGA	S	AAA	
CTG CTA TGG GTG CTG CTG CTC TCA GGC TCC ACT GGT GAC ATT GTG ATG ACC CAA TCT L L W V L L L W V P G S T G D I V M T Q S T L L W V L L L W V P G S T G D I V M T Q S T CT CAA TCT CT CAA TCT CT CAA TCT CT CAA TCT CAA TC	AAC N	AGT	විට්ට	GTG GCT GCA CTA TCT GTC TTC CCG CCA TCT GAT GAG CAG TTG AAA TCT GGA ACT V A A L S V F I F P P S D E Q L K S G T COnstant	CTC CAA TCG GGT AAC		
\$ 0	ATG AAC M N	GGC AGT G S FR3	CC LO	AAA K	GGT	AAA K	
ACC	TAT	TTT AGT F S	GAC	TTG	TCG s	GAG	
ATG	AGT	TTT	CTT CAG L Q	CAG	80 0	TAC	
GTG v	GAT AGT D S	AGG R	CIT CAG GAC CCT L Q D P CCDR3	GAG	55.3	GAC	
ATT	GTT GAT TAT GAT GGT V D Y D G	TCT GGG GTC CCA GAC AGG S G V P D R		GAT	CCC AGA GAG GCC AAA GTA CAG TGG AAG GTG GAT AAC GCC P R E A K V Q W K V D N A	CTC AGC AGC CTG AGG CTG AGC AAA GCA GAC TAC GAG AAA CAC L S S T L T L S K A D Y E K H	TAG
GAC	GAT	SCA P	CAG CAA AGT	TCT	AAC	AAA M	AGG GGA GAG TGT R G E C
GGT G	GAT TAT D Y	GTC v	CAG CAG	TTC CCG CCA F P P Constant	GAT	AGC	GAG
ACT	GAT D	99 5 9 5 9 5	TAC TGT (	CCG P F Sino	GTG	CTG	gg. g
TCC s	GTT V		TAC	TTC	AAG K	ACG	AGG R
ပ္ပစ္ပ	AGT	GAG	TAT	ATC	TGG	CTG	AAC
S a	AAC TGC AAG GCC AGC CAA AGT N C K A S Q S	GCA TCC AAT CTA GAG A S N L E CDR2	CAG GCG GAG GAT GTT GCA GTC TAT Q A B D V A V Y	TTC	CAG	ACC	ACA AAG AGC TTC AAC T K S F N
GTT	AGC	AAT N -CDR2	GCA	GIC	GTA	AGC	AGC
TGG X	000 PA	TCC	GTT	rcr s	AA.	AGC	AAG K
CTO	AAG K	GCA A	GAT	CIA	GCC	CIC	ACA 1
Cig	ភិពិ	GTT V	GAG	GCA A	GAG E	TAC AGC	CCC GTC
CIG	AAC	TAT Y	GCG	GCT	AGA R	TAC	CCC P
TGG GTG W V	ATC	CTC ATC TAT GTT L I Y V	CAG	GTG V	CCC	ACC T	TCG
TGG W Le	ACC	CIC	CTG	ACT	TAT	AGC	AGC
CTA	GCC	CTC	TCT	CGA A	TTC	GAC	CTG
CTG	AGG R	A ×	AGT	AAA 	AAC	AAG K	ည္သစ္ပ
GAC ACA ATC D T I	CTA GGT GAG AGG	CCA CCC P P	ATC	ATC	AAT	AGC	ACC CAT CAG GGC T H Q G
ACA T	GGT	CCS	ACC	GAA	CTG	GAC	CAT
GAC	CITA	CAG	ភ្ជា	GTG V -FR4	CTG	CAG	ACC
ACA T	GTG TCT O	GGA	ACC	AAG K	GTG TGC CTG CTG AAT	GAG	GTC
GAG	GTG V	AAA CCA GGA CAG CCA CCC K P G Q P P	GAC TTC ACC CTC ACC ATC AGT D F T L T I S	GGT ACC AAG GTG GAA ATC I G T K V E I	GTG	GTC ACA GAG CAG GAC AGC V T E Q D S	TGC GAA GTC A
ATG M	GCT	AAA K	GAC	GGT	GTT (	GTC	7gC

Docket No.: TLN-022

App No.: Not Yet Assigned

Inventor: Dawn Windsor-Hines et al. Title: INDUCING TOLERANCE IN PRIMATES

# TRX1 Light Chain Nucleic Acid Seguence

FIGURE

GGTGAGAGGGCCACCATCAACTGCAAGGCCAGCCAAAGTGTTGATTATGATG GGCAGTGGGTCTGGGACAGACTTCACCCTCACCATCAGTTCTCTGCAGGCGG CGGTGGAGGTACCAAGGTGGAAATCAAACGAACTGTGGCTGCACTATCTGTC GTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTG GACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCCATCAGGGCCTGA CCACTGGTGACATTGTGATGACCCAATCTCCAGATTCTTTGGCTGTGTCTCTA ATGGAGACAGACACAATCCTGCTATGGGTGCTGCTGCTCTGGGTTCCAGGC GATAACGCCCTCCAATCGGGTAACTCCCAGGAGGGGTGTCACAGAGCAGGAC AGCAAGGACAGCTACAGCCTCAGCAGCACCCTGACGCTGAGCAAAGCA TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACTGCCTCTGTTG GTGATAGTTATATGAACTGGTATCAACAGAAACCAGGACAGCCACCCAAACI AGGATGTTGCAGTCTATTACTGTCAGCAAAGTCTTCAGGACCCTCCGACGTT CCTCATCTATGTTGCATCCAATCTAGAGTCTGGGGTCCCAGACAGGTTTAG1 SCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAG

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Docket No.: TLN-022 Inventor: Dawn Windsor-Hines et al.

### **FIGURE 2C**

# TRX1 Light Chain Amino Acid Sequence with CDRs Highlighted

#### With leader sequence:

LLIYVASNLESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQSLQDPPTFGGGTKVEIKRTVAALSVFIF PPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKH METDTILL WVLLL WVPGSTGDIVMTQSPDSLAVSLGERATINC**KASQSVDYDGDSYM**NWYQQKPGQPPK KVYACEVTHQGLSSPVTKSFNRGEC

### Without leader sequence:

FYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSF SGTDFTLTISSLQAEDVAVYYCQQSLQDPPTFGGGTKVEIKRTVAALSVFIFPPSDEQLKSGTASVVCLLNN DIVMTOSPDSLAVSLGERATINCKASQSVDYDGDSYMNWYQQKPGQPPKLLIYVASNLESGVPDRFSGSG NRGEC

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#### FIGURE 2D

#### TRX1 Heavy Chain (aglycosyl)

AAG K	CAG	ACA T	rtr F	ACC T	36C 5	ACC T	200g	STC V	AAG K
3TG V	d SGA	3AC D	2GG	AGC s	AGC S	CAG	P G	3AG (	₽C.
SAA E	L D	AGA R	AGT S R3	AAG K	ACC	ACC T	ည္မပ		× AG
GCT.	GCA A	ACT	GGC AGT G S CDR3-	S	CTG	ည်မ	ACA T	ACC	200 A
ggy G	CAG Q	ATG M	GAC	S	GCC A	TTG	CAC	990	AAT o
S	AGG R	ACA	ည်	222	ညည	AGC	ACT	TCC S	CAT
CAG	TGG GTG AGG	GTC V	TCC S	GCA A	TCA S	AGC	AAA	ATC I	GTG V
GTG V	TGG W	AGG R	AGA R	CTG	AAC	TCC S	GAC	ATG	GAG
CTG	AGC S	9 090 090	GCA	CCC P	TGG W	200	ngr o	CTC	GTG
CAG	ATA I	AAG K	TGT	TTC F stan	TCG	GTG V	S	ACC	၁၅၅
TIT CTC CTC ATC CTG TCA GGA ACT CGA GGT GAG GTT CAG CTG GTG CAG TCT GGA GCT GAA GTG AAG	ACT GCC TAT GTT ATA AGC TGG T A Y V I S W	TTC	TAC	TCG GTC TTC CCC S V F P	GTG V	ACC	AAA	GAC	GAC
CAG	GCC TAT GTT A Y V	AAG K	TAT Y	TCG	ACG T	GTG V	) 1	AAG K	GTG V
TCC	GCC A A	GAG	GTC V	CCA	GTG	GTG V	GAG	CCC	TAC Y
CAG	ACT T	AAT N	GCG A	9 0	D 00	AGC	GTT V	AAA K	TGG W
GTC V	TTC	TAT	ACT	AAG K	GAA	AGC	AAA K	450 P	AAC
GGT	ACA T	TAT	GAC	ACC T	CCC	CF J	AAG K	200 D	TTC
CGA R	TAC	ST AGT S S	GAG	TCC	TTC	TCC	GAC	TTC	AAG K
ACT T	GGA G	AGT S	TCT s	GCC A	TAC	TAC	GTG V	CTC	GTC
GGA G	TCT	GGT	AGG R	TCC TCA S S	GAC	CTC	AAG K	TTC	GAG
TCA S	GCT A	AGC	CTG 1	TCC S	AAG K	g g	ACC T	GTC V	CCT P
CTG	AAG K	GGA G	AGC S	GTC	GTC v	TCA	AAC	S S	GAC
ATC	G TCC TGT S C	CCT	AGC AGC S S	ACA T	CTG	TCC	AGC	500 d	GAA
CIC	TCC	TAT	CTC	GTC	TGC	CAG	CCC P	96A	CAC
CTC	GTG v	ATT I	GAA	ACA CTA T L	9	Ę J	AAG K	999 9	AGC
TTT F	AAG K	GAG E	ATG M	ACA T	CTG	GTC	CAC	CTG L	GTG V
ATC I	CTG V	GGA G	TAC	999	GCC A	GCT A	AAT	ភ្ជា	GAC
TGG W	TCA S	ATG M	GIC	CA.	GCG	9) a	GTG	GAA E	GTG V
ATG GAA TGG ATC TGG ATC	ANG CCT GGG GCT TCA GTG ANG GTG TCT GGA TAC ACA TTC ACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT GGA CAG  K P G A S V K V S C K A S G Y T F T A Y V I S W V R Q A P G Q  CONTROL OF CONT	GGC CTT GAG TGG GGA GAG ATT TAT CCT GGA AGC GGT AGT TAT TAT AAT GAG AAG TTC AAG GGC AGG GTC ACA ATG ACT AGA GAC ACA G L E W M G E I Y P G S G S Y Y N E K F K G R V T M T R D T CDR2	TCC ACC AGC ACA GTC TAC ATG GAA CTC AGC CTG AGG TCT GAG GAC ACT GCG GTC TAT TAC TGT GCA AGA TCC GGG GAC GGC AGT CGG TTT S T S T V Y M E L S S L R S E D T A V Y Y C A R S G D G S R F CORRESTORNS CORRESTORNS CORE	GIT TAC TGG GGC CAA GGG ACA CTA GTC TCC TCA GCC TCC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC AAG AGC ACC V Y W G Q G T L V T V S S A S T K G P S V F P L A P S S K S T 	TCT GGG GGC ACA GCG GCC CTG GTC AAG GAC TAC TTC CCC GAA CCG GTG ACG GTG TGG AAC TCA GGC GCC CTG ACC AGC GGC S G T A A L G C L V K D Y F P E P V T V S W N S G A L T S G	GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCC TAC TCC CTC AGC AGC GTG ACC GTG CCC TCC AGC AGC TTG GGC ACC CAG ACC	TAC ATC TGC AAC GTG AAT CAC AAG AAC ACC AAG GTG GAC AAG AAA GTT GAG CCC AAA TCT TGT GAC AAA ACT CAC ACA TGC CCA CCG Y I C N V N H K P S N T K V D K K V E P K S C D K T H T C P P	TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA GTC TTC CTC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC C P A P E L L G G P S V F L F P P K P K D T L M I S R T P E V	ACA TGC GTG GTG GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG T C V V V D V S H E D P E V K F N W Y V D G V E V H N A K T K
TGG ₩	999	GAG	AGC	TGG W	9 0 0	ACC	TGC	eg e	GTG V
GAA E	CCT	CIT	ACC	STT TAC V Y	999	CAC	ATC I	S a	7GC 0
ATG	AAG K	9	TCC s	GTT V	TCT	GTG V	TAC Y	7gC	ACA

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Title: INDUCING TOLERANCE IN PRIMATES Docket No.: TLN-022

TGC	CCC	AGC	AAG K	D d	
	CTG	GAG	GAC	TCT	
TAC AAG Y K	ACC T	TGG	GTG V	CTG	
GAG E	N N	GAG '	ACC O	TCC	
ا بارا	CAG GTG TO	v v	CTC 7	CIIC	
, 5 9	AG C	) SCC 0	AAG (	AGC (	•
N N	P G	I I	NGC 7	K K	
TG 7	GAA CCA E P	AC P	AC P	CAG AAG 7	
C TGG CTG AAT GGC AA	CGA G	၁၅ ၁	CTC TAC AGC 1 L Y S	ACG C	
GAC T	ر درد د	CC P	TTC C	TAC A	
9~	CAG C	TAT CCC AGC GAC ATC GCC GTG Y Y P S D I A V	TTC T	CAC T	
AC C	0 99	TC T	CC T	AAC C	
TG C	AA G	GC T	GC T	CAC A	
C GTC CTG CAC C	TCC AAA GCC AAA GGG S K A K G	CTG GTC AAA GGC TTC L V K G F	GAC GGC TCC D G S	CTG C	
ACC G	5 ;	J. A.	TCC G	GCT C	
CTC AC	20.00	5	GAC TO	GAG G	
57	)T	CTG ACC TGC CT	rg g	AT G	
AGC GTC	GAG AAA ACC ATC E K T I	5 5	GTG CTG	GTG ATG CAT V M H	
)C AO	4 2 1	G AC	CCC G1	EG A3	
G GTC	g * ;	12 1	D E	C GI	
CGT GTG	C GA	GTC AGC	AAG ACC ACG CCT K T T P	C TCC	
C CG	C ATC I	G GT	C AC	A TGC	
ACG TAC T Y	ر ر دردد	c cag	G AC	C TCA	
C AC	A GCC	G AAC N	C AA	C TTC	
s AGC	CCA P	AAG K	TAC Y	G GTC	
TAC GCC	CTC	CTG ACC P	AAC AAC N N	GGG AAC G N	
	A A	CTC		ဗွ်ဗ ဗ	
CAG Q	AAC AAA N K	GAG	GAG E	CAG CAG	
GAG	N N	GAT	E CCG	CAG	
GAG	TCC	CGG	CAG	TGG	AAA TGA K *
CGG	GTC V	TCC	9999 9	AGG R	AAA K
DSS P	AAG K	S a	AAT	AGC	GGT

Inventor: Dawn Windsor-Hines et al. Title: INDUCING TOLERANCE IN PRIMATES

Docket No.: TLN-022

### TRX1 aglycosyl mut Heavy Chain Nucleic Acid Sequence 2区 FIGURE

GTGGATGGGAGAGTTTATCCTGGAAGCGGTAGTAGTTATTATAATGAGAAGTTCAAGGGCAGGG **ACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCC** AGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCCAAGGTGGACAAGAAGTTGAGCCC AGTCTTCCTCTTCCCCCCAAAACCCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGTCACATG CGTGGTGGTGGACGTGAGCCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTG CAAAGCCCTCCCAGCCCCCATCGAGAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAACCAC GAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACGCCAGCACGTACCGTGTGGTCA AAATCTTGTGACAAAACTCACACATGCCCACCGTGCCCAGCACCTGAACTCCTGGGGGGACCGTC TCACAATGACTAGAGACACATCCACCAGCACAGTCTACATGGAACTCAGCAGCCTGAGGTCTGAG GGACACTAGTCACAGTCTCCTCAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCTCC TCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAAC CGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGTCCT GCTGGTGCAGTCTGGAGCTGAAGTGAAGAAGCCTGGGGCTTCAGTGAAGGTGTCCTGTAAGGCT GCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAA **ATGGAATGGATCTGGATCTTTCTCCTCATCCTGTCAGGAACTCGAGGTGTCCAGTCCCAGGTTCA** 

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GGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGGAGCAATGGGCAGCCGGAGAAC CGTGGACAAGAGCAGGTGGCAGCAGGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTG AACTACAAGACCACGCCTCCCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCAC **AGGTGTACACCCCCCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTCAGCCTGACCTGCCT** CACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGA

Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

## TRX1 Heavy Chain aglycosyl mut Amino Acid Sequence with CDRs **Highlighted**

**FIGURE 2F** 

With leader sequence:

YNEKFKGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQGTLVTVSSASTKGPSVFPLAPSSKSTS GGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKK VEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPR EEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVK MEWIWIFLLILSGTRGVQSQVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMG**EIYPGSGSSY** GFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

### Without leader sequence:

VSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPE LLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQ QVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMG**EIYPGSGSSYYNEKFKG**RVTMTRDTSTST VYMELSSLRSEDTAVYYCAR**SGDGSRFVY**WGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT DWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGOPEN NYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

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Title: INDUCING TOLERANCE IN PRIMATES

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FIGURE 3A TRX1 Light Chain

TTG L	CAG	ACA T	GGA G	rcr	AGT	GCC	
TCT s	CAA	9 9	GGT (	300 d	GAG /	TAC (Y	
GAT 7	TAT (	TCT o	TTC (	ACT O	CAG (	GTC 7	
CCA C		000		gg y			
TCT ( S FR1	AAC TGG N W	AGT O	CCG ACG P T	rcr o	AAC TCC N S	CAC /	
4 o	ATG A	GGC 7 G FR3	D a	\$ ×	G G	¥ ×	
CTG CTA TGG GTG CTG CTC TGG GTT CCA GGC TCC ACT GGT GAC ATT GTG ATG ACC CAA TCT CCA L L W V L L L W V P G S T G D I V M T Q S P	TAT Y	AGT ( S	TGT CAG CAA AGT CTT CAG GAC CCT C Q Q S L Q D P	AAA CGA ACT GTG GCT GCA TCT GTC TTC CCG CCA TCT GAT GAG CAG TTG AAA TCT GGA K R T V A A L S V F I F P P S D E Q L K S G	TAT CCC AGA GAC AAA GTA CAG TGG AAG GTG GAT AAC GCC CTC CAA TCG GGT Y P R E A K V Q W K V D N A L Q S G	TAC GAG AAA CAC AAA Y E K H K	
M M	AGT	TTT AGT (F S	CAG ( O CDR3	CAG	CAA	Y Y	
3TG V	GAT	AGG 'R	CIT	GAG	CTC	3AC '	
ATT I	GGT	GAC	AGT	GAT	GCC A	GCA A	TAG * *
GAC	GAT	GGG GTC CCA GAC AGG G V P D R	A O	TCT	AAC	CTG ACG CTG AGC AAA GCA GAC L T L S K A D	TGT
GGT G	TAT Y R1	GTC V	CAG	CCA P tant	GAT	AGC	GAG
ACT	GAT TAT D YCDR1	999 9	TGT C	TC CCG CCA F P P Constant	GTG	ក្សិ	GGA GAG G E
TCC	GTT V	TCT S	TAC	TTC F	AAG K	ACG T	AGG R
383 383	AGT	GAG	TAT	ATC	TGG W	CTG	AAC N
CCA	o GA	CTA GAG TCT L E S	GTC	TTC	CAG	ACC	TTC
GTT	ACC ATC AAC TGC AAG GCC AGC CAA AGT GTT GAT GAT GGT GAT AGT TAT T I N C K A S Q S V D Y D G D S Y	CTC ATC TAT GTT GCA TCC AAT ( L I Y V A S N	GTT GCA GTC TAT TAC	GTC	GTA	AGC ACC TAC AGC CTC AGC ACC ACC S T Y S L S S T	CTG AGC TCG CCC GTC ACA AAG AGC TTC AAC AGG
TGG W	GCC AGC A S	TCC	GTT	TCT	AAA K	AGC S	AAG K
CHO L	TGC AAG C K	GTT GCA V A	GAT	CTA	GCC	단 크	A CA
CTG	ກີດີ	GTT V	GAG	gg 4	GAG	AGC S	GTC
CTG	A A C	TAT Y	CAG GCG GAG GAT Q A E D	GCT A	AGA R	TAC	CCC P
TGG GTG W V -Leader-	ATC	ATC	OAG O	GTG V	CCC	ACC	TCG
TGG ₩ Le			CTG	ACT		AGC	AGC
CTA	GCC	AAA CTC K L	AGT TCT S S	CGA R	AAC TTC N F	AAG GAC K D	CTG
	AGG R						၁၅၅
ATC	GAG	CA CCC	ATC	ATC	AAT	AGC	CAG
ACA T	GGT	CCA	ACC	GAA	CTG	GAC	CAT
GAC	CTA	CAG	CTC	GTG V -FR4	CTG	CAG	ACC
ACA	GTG TCT CTA GGT GAG V S L G E	GGA	ACC	AAG	TGC O	GAG	GTC
ATG GAG ACA GAC ACA ATC	GTG	AAA CCA GGA CAG CCA CCC K P G Q P P	GAC TTC ACC CTC ACC ATC D F T L T I	GGT ACC AAG GTG GAA ATC G T K V E I	GTT GTG TGC CTG CTG AAT V V C L L N	GTC ACA GAG CAG GAC AGC V T E Q D S	TGC GAA GTC ACC CAT CAG C E V T H Q
ATG M	GCT A	AAA K	GAC	GGT	GTT V	OTC V	ည်ပ

Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

Docket No.: TLN-022

### TRX1 Light Chain Nucleic Acid Sequence FIGURE 3B

CCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCCATCAGGGCCTGAGC TGTGATGACCCAATCTCCAGATTCTTTGGCTGTGTCTCTAGGTGAGGGGCCACCATCAACTGCAAGGCCAGCC GCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTGGATAACGCCC1 CCAATCGGGTAACTCCCAGGAGAGTGTCACAGAGCAGGACAGGACAGGACAGCACCTACAGCTCAGCAGCAC AAAGTGTTGATTATGATGGTGATAGTTATATGAACTGGTATCAACAGAAACCAGGACAGCCACCCAAACTCCT ATTACTGTCAGCAAAGTCTTCAGGACCCTCCGACGTTCGGTGGAGGTACCAAGGTGGAAATCAAA CGAACTGTGGCTGCACTATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACT ATGGAGACAGACACAATCCTGCTATGGGTGCTGCTGCTCTGGGTTCCAGGCTCCACTGGTGACAT CAGTGGGTCTGGGACAGACTTCACCCTCACCATCAGTTCTCTGCAGGCGGAGGATGTTGCAGTCT CATCTATGTTGCATCCAATCTAGAGTCTGGGGTCCCAGACAGGTTTAGTGG TCGCCCGTCACAAGAGCTTCAACAGGGGAGAGTGTTAG

Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

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### TRX1 Light Chain Amino Acid Sequence with CDRs Highlighted FIGURE 3C

#### With leader sequence:

METDTILLWVLLLWVPGSTGDIVMTQSPDSLAVSLGERATINC**KASQSVDYDGDSYM**NWYQQKPG TVAALSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSL QPPKLLIYVASNLESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQSLQDPPTFGGGTKVEIKR SSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

### Without leader sequence:

**ASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEV** FSGSGSGTDFTLTISSLQAEDVAVYYCQQSLQDPPTFGGGTKVEIKRTVAALSVFIFPPSDEQLKSGT DIVMTOSPDSLAVSLGERATINCKASQSVDYDGDSYMNWYQQKPGQPPKLLIYVASNLESGVPDR THQGLSSPVTKSFNRGEC

Docket No.: TLN-022

App No.: Not Yet Assigned Door Inventor: Dawn Windsor-Hines et al.
Title: INDUCING TOLERANCE IN PRIMATES

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AAG K	CAG	ACA T	TTT F	ACC T	ပ္ပိပ္ပ	ACC	8	GTC	AAG K
GTG V	GGA	GGA GAG ATT TAT CCT GGA AGC GGT AGT AGT TAT TAT AAT GAG AAG TTC AAG GGC AGG GTC ACA ATG ACT AGA GAC ACA G E I Y P G S G S S Y Y N E K F K G R V T M T R D T	CGG TTT R F	AGC S	AGC	GCT GTC CTA CAG TCC TCA GGA CTC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC ACC CAG ACC	CCA	GAG E	ACA T
GAA E	CCT	AGA R	AGT S R3	AAG K	ACC	ACC T	ည်ပ	CCT	AAG K
GCT	GCA	ACT T	ეგე ეე	TCC	CTG	၁၅၅	ACA	ACC	GCC
gg G	CAG O PFR2	ATG M	GAC	TCC	GCC A	TTG	CAC	CGG R	AAT
TCT	AGG	ACA T	999 9	CCC	ပ္ပဗ္ဗ	AGC S	ACT	TCC	CAT H
o Gag	-FR1 GTG V	GTC V	TCC	A GCA	TCA S	AGC S	AAA K	ATC	GTG V
GTG	TGG ×	AGG	AGA R	CTG	AAC	77C 8	GAC	ATG M	GAG
CTG	AGC S	0 0 0	GC.	CCC P	TGG ¥	ည္သ	76T O	CTC	GTG
CAG	ATA	AAG K	TGT	TTC F Istan	TCG s	GTG V	TGT s	ACC	200
GIT	AT GTT A	TTC	TAC	GTC V -Con	GTG V	ACC T	AAA	GAC	GAC
o Gag	TAT	AAG K	TAT	TCG s	ACG T	GTG V	ပ္ပ	AAG K	GTG
TCC S	\$ B C C C	GAG	GTC	P G	GTG V	GTG V	GAG	ည္ထ	TAC
CAG	ACT	AAT	GCG A	တ္မွတ္ ဗ	SCG P	AGC S	GTT	AAA ×	TGG
GTC V	TTC	TAT	ACT T	AAG K	GAA E	Agc s	A A	CC P G	AAC N
GGT	ACA H	TAT	GAC	ACC	CCC	CT D	AAG K	ပ္ပ	TTC
CGA R	TAC	AGT S DR2-	GAG	TCC	TTC	77.C S	GAC	TTC	AAG K
ACT	GGA G	AGT S	TCT	GCC A A	TAC	TAC Y	GTG v	SE 1	GTC
GGA	TCT s	GGT	AGG R	TCA S	GAC	CT. L	AAG K	TTC	GAG
TCA S	GCT	AGC	CTG	TCC	AAG K	808 80	ACC H	GTC	CCT
CTG	AAG K	දිලි ප	AGC S ?R3	GTC	GTC	ADT &	AAC	TCA s	GAC
ATC	TGT	CCT	AGC S	A CA	CTG	TCC S	AGC 8	9 8	GAA
CIC	TCC	TAT	CHO	GIC	737 ' ດ	80	ည္သ	GCA A	CAC
CHO L	GTG	ATT	GAA	CTA L	၁၉၅	CTA	AAG K	999	AGC
TTT F	AAG K	GAG E	ATG	ACA T	CTG	GTC V	CAC	ggg •	GTG
ATC	GTG	GGA G	TAC	ენ ი	9 8 9	gc <sub>T</sub>	AAT	Ę, J	GAC
TGG ₩	TCA S	ATG	GTC	S O	gcg A	ეეე •	GTG V	GAA	GTG
TGG ATC TGG	GGG GCT TCA GTG AAG GTG TCT GGA TAC ACA TTC ACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CGT GGA CAG G A S V K V S C K A S G Y T F T A Y V V R Q A P G Q C A S V K V S C K A S G Y T F T A Y V S C F F C C C C C C C C C C C C C C C C	CTT GAG TGG ATG	ACA	ည်မှု	GGC ACA GCG GCC CTG GTC AAG GAC TAC TTC CCC GAA CCG GTG ACG GTG TGG TGG AAC TCA GGC GCC CTG ACC AGC	TTC	AAC	CCT	GTG
TGG W	999	GAG	AGC	TGG W	ည္သမ	ACC	7gC 0	GCA	GTG
e &	Ç a	CIT	TCC ACC AGC ACA GTC TAC ATG GAA CTC AGC AGC CTG AGG TCT GAG GAC ACT GCG GTC TAT TAC TGT GCA AGA TCC GGG GAC GGC AGT S T S T V Y M E L S S L R S E D T A V Y Y C A R S G D G S 	GTT TAC TGG GGC CAA GGG ACA CTA GTC TCC TCA GCC TCC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC AAG AGC ACC V Y W G Q G T L V T V S S A S T K G P S V F P L A P S S K S T S T CO TCC TCC AAG AGC ACC ACC ACC ACC ACC ACC ACC A	TCT GGG (	CAC H	TAC ATC TGC AAC GTG AAT CAC AAG CCC AGC AAC ACC AAG GTG GAC AAA GTT GAG CCC AAA TCT TGT GAC AAA ACT CAC ACA TGC CCA (Y I C N V N H K P S N T K V D K K V E P K S C D K T H T C P	TGC CCA GCA CCT GAA CTC GCG GGG GCA CCG TCA GTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC	ACA TGC GTG GTG GTG GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GTG GAG GTG CAT AAT GCC AAG ACA AAG T C V V V D V S H E D P E V K F N W Y V D G V E V H N A K T K
ATG	AAG K	9 0	TCC	GTT V	TCT	GTG CAC ACC TTC CCG G	TAC	ည်ပ	ACA T

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Title: INDUCING TOLERANCE IN PRIMATES Docket No.: TLN-022

TGC	) 1	AGC S	AAG K	CCG
AAG K	CTG	GAG E	GAC D	S
TAC /	ACC O	TGG	GTG (	CTG
GAG 7	TAC A	GAG 1	ACC O	TCC (
AAG C	GTG 7	GTG (	CTC /	CTC 7
09C 7	CAG	9 P	AAG O	AGC (
AAT N	45 d	ATC (	AGC 1	AAG 7
CTG /	GAA (	GAC /	Y Y	CAG
TGG W	CGA (	AGC (	CTC TAC	ACG O
GAC	CCC (	- d - D - D - D	TTC (	TAC /
80	CAG	TAT O	TTC 1	CAC 1
GTC CTG CAC (	999	TTC	TCC	AAC N
ortg o	AAA (	၁၉၂	9 9	CAC 7
STC (	GCC /	AAA (	GAC (	CTG (
ACC (	AAA (	GTC 7	TCC (	GCT O
D i	TCC 1	CTG	GAC 7	GAG (
STC (	ATC :	ည္ည	CTG (	CAT (
GTC AGC GTC C	ACC 7	CTG ACC	GTG V	ATG M
STC /	AAA K	CTG .	200 G	GTG A
GTG O	GAG /	AGC o	CCT	TCC (
CGT (	ATC (	GTC /	ACG O	TGC
TAC	CCC	CAG	ACC	TCA
ACG	GCC	AAC	AAG K	TTC
AGC	CCA O	AAG K	TAC	GTC V
N N	CTC	ACC 7	AAC N	AAC O
TAC	GCC O	CTG	AAC N	999
		t t	4	1
CG CGG GAG GAG CAG	AG GTC TCC AAC AAA K V S N K	CA TCC CGG GAT GAG P S R D E	AT GGG CAG CCG GAG	GC AGG TGG CAG CAG
GAG (	TCC .	CGG (	CAG	TGG ×
200 c	GTC .	S S	999	AGG .
	AG (	5 4	N	ည္သ

Docket No.: TLN-022

Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

FIGURE 3E TRX1 Heavy Chain Nucleic Acid Sequence ATGGAATGGATCTGGATCTTTCTCCTCTGTCAGGAACTCGAGGTGTCCAGTCC ATTACTGTGCAAGATCCGGGGACGGCAGTCGGTTTGTTTACTGGGGCCAAGGGACA CTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGAC CGTGGACGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGGAGGAGCAGTAC GTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCA AGGTGTCCTGTAAGGCTTCTGGATACACATTCACTGCCTATGTTATAAGCTGGGTGA GGCAGGCACCTGGACAGGGCCTTGAGTGGATGGGAGGATTTATCCTGGAAGCGG TAGTAGTTATTATAATGAGAAGTTCAAGGGCAGGGTCACAATGACTAGAGACACATC CACCAGCACAGTCTACATGGAACTCAGCAGCCTGAGGTCTGAGGACACTGCGGTCT CTAGTCACAGTCTCCTCAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACC TACTTCCCCGAACCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCG TGCACACCTTCCCGGCTGTCCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTG CCTCTTCCCCCCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGTCA CAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCCAAATCTTGTGACAAAA CAGGTTCAGCTGGTGCAGTCTGGAGCTGAAGTGAAGAAGCCTGGGGCTTCAGTGA CATGCGTGGTGGACGTGAGCCACGAGGACCCTGAGGTCAAGTTCAACTGGTA AACAGCACGTACCGTGTGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGA CTCACACATGCCCACCGTGCCCAGCACCTGAACTCGCGGGGGGCACCGTCAGTCTT

Docket No.: TLN-022 Inventor: Dawn Windsor-Hines et al. Title: INDUCING TOLERANCE IN PRIMATES

**ATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAG** AAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCC GGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGGAGCAATGGGCAGCCGGAGA CCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGGCCTCTCCCTGTCT ACAACTACAAGACCACGCCTCCCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTAC AGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGGAACGTCTTCTCATGCT CCGGGTAAATGA App No.: Not Yet Assigned Docket No.: TLN-022

Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

### TRX1 Heavy Chain Amino Acid Sequence with CDRs Highlighted **FIGURE 3F**

### With leader sequence:

LPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGS RTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA LYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELAGAPSVFLFPPKPKDTLMIS TLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSG MEWIWIFLLILSGTRGVQSQVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEW MGEIYPGSGSSYYNEKFKGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQG FFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Without leader sequence:

DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPS RDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVM KPSNTKVDKKVEPKSCDKTHTCPPCPAPELAGAPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYV PSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNH KGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQGTLVTVSSASTKGPSVFPLA QVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMG**EIYPGSGSSYYNEKF** HEALHNHYTQKSLSLSPGK

App No.: Not Yet Assigned Doo ilnventor: Dawn Windsor-Hines et al.
Title: INDUCING TOLERANCE IN PRIMATES Docket No.: TLN-022

TRX1 Light Chain FIGURE 4A

TTG	CAG	ACA T	GGA	TCT	AGT	GCC A	
	o Se	999	GGT			TAC	
D	TAT (	TCT s	TTC (	ACT (	SAG O	STC Y	
5 5 a	TGG 7	999	4CG 7	3GA 1	) သည	K X	
S FR1-	AAC 1	AGT GGG S G	CCG 7	S	N N	SAC / H	
CAA T	ATG AAC M N	GGC 7 G FR3	CCT CCG ACG P P T	AAA K	ggT /	A X	
D F	Y Y	S S	3AC (	TTG /	TCG (	3AG 1	
M M	AGT S	TTT /	CAG O	CAG	CAA O	Y Y	
GTG .	GAT	AGG R	CTT	GAG E	CTC	GAC '	
ATT I	GGT	GAC	AGT	GAT D	GCC A	SCA A	TAG
CTG CTA TGG GTG CTG CTG CTC TGG GTT CCA GGC TCC ACT GGT GAC ATT GTG ATG ACC CAA TCT CCA GAT TCT L L W V L L L W V P G S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S S T G D I V M T Q S P D S D S D S D S D S D S D S D S D S	GAT GGT GAT AGT TAT D G D S Y	CTC CTC ATC TAT GTT GCA TCC AAT CTA GAG TCT GGG GTC CCA GAC AGG TTT AGT L L I Y V A S N L E S G V P D R F S	CTG CAG GCG GAG GAT GTT GCT TAT TAC TGT CAG CAA AGT CTT CAG GAC L Q A L Q B L Q B L Q B CTT CAG GAC CAG AGT CTT CAG GAC L Q B L Q B C A C A C A C A C C A C A C A C A C A	AAA CGA ACT GTG GCT GCA TCT GTC TTC ATC TTC CCG CCA TCT GAT GAG CAG TTG AAA TCT GGA ACT GCC K R T V A A P S V F I F P P S D E Q L K S G T A	TAT CCC AGA GAG GCC AAA GTA CAG TGG GAT AAC GCC CTC CAA TCG GGT AAC TCC CAG GAG Y P R E A K V Q W K V D N A L Q S G N S Q E	AAG GAC AGC ACC TAC AGC CTC AGC ACC CTG ACG CTG AGC AAA GCA GAC TAC GAG AAA CAC AAA GTC 'K D S T Y S L S S T L T L S K A D Y E K H K V	TGT C
GGT G	TAT Y R1	GTC	CAG	CCA P tant	GAT D	AGC S	GAG
ACT	AGG GCC ACC ATC AAC TGC AAG GCC AGC CAA AGT GTT GAT TAT R A T I N C K A S Q S V D Y	999 9	TGT C	rrc ccg cca F P P Constant	GTG V	CTG	CTG AGC TCG CCC GTC ACA AAG AGC TTC AAC AGG GGA GAG L S S P V T K S F N R G E
300	GTT	TCT S	TAC	TTC	AAG K	ACG	AGG R
ပ္ပို့ ဗ	AGT	GAG	TAT	ATC	TGG W	CTG	AAC
S a	<b>∮</b> α	GTA	GTC	TTC	CAG	ACC	TTC
GTT V	AGC	AAT N -CDR2	gg &	GTC ^	GTA V	AGC s	AGC
1GG ▼	GCC A	TCC	GTT	TCT	AAA K	AGC	AAG K
Ę i	AAG K	GCA	GAT	CCA	GCC	CTC	ACA T
G L	TGC C	GTT V	GAG	GCA A	GAG	AGC	GTC
CTG L	AAC N	TAT Y	gg q	GCT	AGA R	TAC	CCC
GTG V Ider-	ATC	ATC	CAG	GTG	CCC	ACC T	TCG
TGG GTG W V Leader	ACC	CTC	CTG	ACT	TAT	AGC	AGC
E 1	GCC	CTC	AGT TCT S S	CGA R	TIC	GAC	CTG
CTG L	AGG R	AAA	AGT		AAC	AAG K	ეე
ATC	GAG		ATC	ATC	AAT	AGC	CAG
¥ ₽	GGT	CCA P	ACC	GAA	CTG	GAC	CAT H
GAC	CTA	CAG	CTC	GTG V FR4-	CTG	CAG O	ACC
ACA 1	TCT	GGA	ACC	AAG K	ည်င	GAG	GTC
ATG GAG ACA GAC ACA ATC M E T D T I	A V S L G E	AAA CCA GGA CAG CCA CCC K P G Q P P	BAC TTC ACC CTC ACC ATC	G T K V E I	STT GTG TGC CTG CTG AAT V V C L L N	STC ACA GAG CAG GAC AGC V T E Q D S	GC GAA GTC ACC CAT CAG C E V T H Q
A X	3CT	₹×	SAC	G	STT v	3TC	ည္သပ

Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES

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# FIGURE 4B TRX1 Light Chain Nucleic Acid Sequence

TGTGATGACCCAATCTCCAGATTCTTTGGCTGTGTCTCTAGGTGAGAGGGCCACCATCAACTGCAAG GCCAGCCAAAGTGTTGATTATGATGGTGATAGTTATATGAACTGGTATCAACAGAAACCAGGACAG AACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTCACAGAGCAGGACAGCAAGGACAGCACCTA GCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGGGCCAAAGTACAGTGGAAGGTGGAT ATTACTGTCAGCAAAGTCTTCAGGACCCTCCGACGTTCGGTGGAGGTACCAAGGTGGAAATCAAA CGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACT CAGCCTCAGCACACCCTGACGCTGAGCAAAGCAGACTACGAGAAACACACAAAGTCTACGCCTGCG ATGGAGACAGACACAATCCTGCTATGGGTGCTGCTGCTCTGGGTTCCAGGCTCCACTGGTGACAT CCACCCAAACTCCTCATCTAGCATCCAATCTAGAGTCTGGGGTCCCAGACAGGTTTAGTGG CAGTGGGTCTGGGACAGACTTCACCCTCACCATCAGTTCTCTGCAGGCGGAGGATGTTGCAGTCT AAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAG App No.: Not Yet Assigned Docket No.: TLN-022

Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE TO PROTEINS IN PRIMATES

### TRX1 Light Chain Amino Acid Seguence with CDRs Highlighted **FIGURE 4C**

#### With leader sequence:

METDTILL WVLLL WVPGSTGDIVMTQSPDSLAVSLGERATINCKASQSVDYDGDSYMNWYQQKPG TVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSL QPPKLLIYVASNLESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQSLQDPPTFGGGTKVEIKR SSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

### Without leader sequence:

ASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEV FSGSGSGTDFTLTISSLQAEDVAVYYC**QQSLQDPPT**FGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGT DIVMTQSPDSLAVSLGERATINCKASQSVDYDGDSYMNWYQQKPGQPPKLLIYVASNLESGVPDR THQGLSSPVTKSFNRGEC

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Title: INDUCING TOLERANCE IN PRIMATES

Docket No.: TLN-022

TRX1 Heavy Chain (aglycosyl)

FIGURE 4D

×	CAG	ACA T	F	ACC	299	ACC	CCG	GTC
MEWIWIFLLILS GTRGVQSQVQLVQSGAEVK	GGA	GAC	CGG	AGC	AGC	CAG	CC.A	GAG
ш	D a	AGA R	AGT S R3	AAG K	ACC	ACC T	7gc 0	CCT
K	GC &	ACT	GGC AGT G S CDR3-	TCC	CTG	၁၅၅	ACA T	ACC T
Ö	CAG Q	ATG	GAC	TCC	GCC	TTG	CAC	200 8
တ	AGG	ACA T	999	CCC	၁၅၅	AGC	ACT T	TCC
0 [	GTG AGG	GTC	TCC S	GCA A	TCA	AGC	AAA ×	ATC
>	TGG W	3GC AGG G R	AGA R	CTG L	AAC	TCC	GAC	ATG M
J	AGC S	ემც ი , :	GCA	CCC P	TGG W	200 P	TGT O	CTC
o	ATA	AAG K	TGT C	TTC F istan	TCG	GTG V	TCT	ACC T
>	GTT V DR1-	TTC	TAC	G GTC TTC CCC Y F P Constant	GTG V	ACC	AAA K	GAC D
o ,	TAT Y	AAG K	TAT Y	TCG	ACG T	GTG V	GCC P	AAG K
o.	CT GCC TAT GTT ATA AGC TGG T A Y V I S W	GAG E	GTC V	CCA	GTG V	GTG V	GAG	CCC
>	ACT T	AAT N	GCG A	9	CCG PDD	AGC	GTT V	AAA K
>	TTC	TAT	ACT	AAG K	GAA	AGC	AAA K	CCA P
9	ACA	TAT	GAC	ACC	CCC P	CHO L	AAG K	CCC
ĸ	TAC	ST AGT S S CDR2-	GAG	TCC s	TTC	300	GAC	TTC
<b>:-</b>	GGA	AGT S	TCT s	TCA GCC S A	TAC	TAC Y	GTG V	CIC
ಅ	rcT s	GGT	AGG R	TCA S	GAC	55 7	AAG K	TTC
S	GCT A	AGC S	CIG	TCC	AAG K	GGA	ACC T	GTC V
<b>.</b>	AAG K	ggA G	AGC S S <sup>R3</sup>	GTC	GTC	5 °	AAC	TCA S
٠ <u>٠</u>	TGT O	CCT P	AGC AGC S S	ACA	CTG	77C 8	AGC	- d - d
٦ ر	GTG TCC TGT V S C	TAT	CTC	GTC	TGC	CAG	ပ္ပ	GGA
a	GTG V	ATT	GAA E	CA CTA T L	၁၉၅	QT3	AAG K	999
<b>Э</b> 4	AAG K	GAG E	ATG	ACA 1	CTG	GTC V	CAC	CTG
-	GTG V	GGA GA G E	TAC Y	විසි	gcc A	GCT A	AAT N	CTC
3	TC S	ATG M	GTC V	₹ o	928 A	႘ၟ႕	GTG V	GAA
-	CCT GGG GCT TCA GTG AAG GTG TCT GGA TAC ACA TTC ACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT  P G A S V K V S C K A S G Y T F T A Y V I S W V R Q A P P CTT CACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT CACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT CACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT CACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT CACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT CACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT CACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT CACT GCC TAT GTT ATA AGC TGG GTG AGG CAG GCA CCT ATA AGC TGG GTG AGG CAG GCA CCT ATA AGC TGG GTG AGG CAG GCA GCT ATA AGC TGG GTG AGG CAG GCA CCT ATA AGC TGG GTG AGG CAG GCA CCT ATA AGC TGG GTG AGG CAG GCA CCT AGC TGG GTG AGG CAG GCA GCT ATA AGC TGG GTG AGG CAG GCA CCT AGC AGG CAG GCA GCT ATA AGC TGG GTG AGG CAG GCA GCT ATA AGC TGG GTG AGG CAG GCA CCT AGC AGG CAG GCA GCT AGC AGG CAG GCA AGC AGG CAG AGC AGC	GGC CTT GAG TGG ATG GGA GAT TAT CCT GGA AGC GGT AGT TAT TAT AAT GAG AAG TTC AAG GGC AGG GTC ACA ATG ACT AGA GAC G L E W M G E I Y P G S G S Y Y N E K F K G R V T M T R D	TCC ACC ACC ACA GTC TAC ATG GAA CTC AGC AGC CTG AGG TCT GAG GAC ACT GCG GTC TAT TAC TGT GCA AGA TCC GGG GAC GGC AGT S T S T V Y M E L S S L R S E D T A V Y Y C A R S G D G S CDR3	GTT TAC TGG GGC CAA GGG ACA CTA GTC TCC TCA GCC TCC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC TAAG AGC ACC V Y W G Q G T L V T V S S A S T K G P S V F P L A P S S K S T S T C CC TCC TCC TCC TCC TCC TCC TC	TOT GGG GGC ACA GCG GCC CTG GGC TGC CTG GTC AAG GAC TTC CCC GAA CCG GTG ACG GTG TCG TGG AAC TCA GGC GCC CTG ACC AGC GGC S G G T A A L G C L V K D Y F P E P V T V S W N S G A L T S G	GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCC TCC TCC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GCC ACC CAG ACC	TAC ATC TGC AAC GTG AAT CAC AAG CCC AGC AAG GTG GAC AAG AAA GTT GAG CCC AAA TCT TGT GAC AAA ACT CAC ACA TGC CCA CCG Y I C N V N H K P S N T K V D K K V E P K S C D K T H T C P P	TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA GTC TTC CTC CCA CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC C P A P E L L G G P S V F L F P P K P K D T L M I S R T P E V
3	999	GAG	AGC	TGG ¥	၁၅၅	ACC	Jg C	GG &
a i		CTT	ACC	TAC	9 9 9	CAC	ATC	CCA
Σ	AAG K	ეენ ენ	JCC S	GTT V	TCT	GTG V	TAC	767

App No.: Not Yet Assigned Doo Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE IN PRIMATES Docket No.: TLN-022

7GC C	CCC 4 :	AGC S	AAG K	CCG	
K K	CTG (	GAG /	D D	TCT (	
TAC AAG Y K	ACC (	TGG W	GTG GAC	CTG	
3AG . E	TAC /	E	1 1	TCC (s	
AAG GAG K E	GTG Y	GTG GAG	CTC ACC	B =	
၁၅၅	CAG	) D &	TAC AGC AAG C Y S K	CAG AAG AGC O	
CTG AAT GGC L N G	CCA	GAC ATC GCC D I A	AGC S	AAG K	
CTG	GAA	GAC D	TAC	CAG	
TGG	CGA R	AGC S	CTC	ACG T	
3AC D	CCC	CCC AGC (	TIC CIC	CAC AAC CAC TAC ACG H N H Y T	
CTG CAC CAG C	CAG	TAT Y	G S TTC TTC S	CAC	
CAC	999	TIC	S	AAC	
CTG	AA	၁၉၅	၁၅၅	CAC	
GTC	96C	AAA K	GAC	CTG	
ACC	AAA K	Grc	ည္တ	GCT CTG (	
CTC	TCC AAA GCC AAA GGG S K A K G	CTG	GAC D	GAG (E	
GTG GTC GTC CTC ACC GTC V V S V L T V	ACC ATC 1 T I	CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC TAT Q V S L T C L V K G F Y	C GTG CTG GAC T	ATG CAT GAG (	
AGC S	ACC	ACC	GTG	ATG	
GTC V	GAG AAA Z	CTG	CCT CCC	TCA TGC TCC GTG	
GTG	GAG	AGC S	CCT	TCC	
CGT	ATC	GTC V	ACG	TGC C	
ACG TAC CGT T Y R	CCC	CAG	AAG ACC ACG CO	TCA	
ACG	GCC A	Z Z	AAG K	rrc F	
GCC AGC I	Ş a	ACC AAG F T K	AAC TAC	AAC GTC	
₩ ₩	ם כוכ כ	ACC	AAC N	AAC	
TAC	ું ₹ ¦	CTG	AAC N	999	
CAG	AAA	GAG	GAG	CAG	
GAG	TCC AAC AAA (	CGG GAT GAG R D E	000 P	CAG	
GAG	TCC	CGG	CAG	TGG	TGA *
CCG CGG GAG GAG CAG	AAG GTC T K V	ည်ဖ	AAT GGG CAG CCG GAG N G Q P E	AGC AGG TGG CAG CAG GGG S R W Q Q G	GGT AAA TGA G K *
2000 6000	AAG K	CCA	AAT	AGC S	GGT

Inventor: Dawn Windsor-Hines et al.

App No.: Not Yet Assigned

Title: INDUCING TOLERANCE IN PRIMATES

Docket No.: TLN-022

# TRX1 aglycosyl mut Heavy Chain Nucleic Acid Sequence

**4** 五

FIGURE

CCCAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCCAAGGTGGACAAGATTGAG CTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCTGGTCAAGGACTACTTCCCCGAA ACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACG GTGGATGGGAGAGTTTATCCTGGAAGCGGTAGTAGTTATTATAATGAGAAGTTCAAGGGCAGGG TCACAATGACTAGAGACACATCCACCAGCACAGTCTACATGGAACTCAGCAGCCTGAGGTCTGAG CGTCAGTCTTCCTCCCCCCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGTC GAACCACAGGTGTACACCCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTCAGCCTGA CTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCA GCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGGAGTACGCCAGCACGTACCGTG ATGGAATGGATCTGGATCTTTCTCCTCATCCTGTCAGGAACTCGAGGTGTCCAGTCCCAGGTTCA GCTGGTGCAGTCTGGAGCTGAAGTGAAGAAGCCTGGGGCTTCAGTGAAGGTGTCCTGTAAGGCT GGACACTAGTCACAGTCTCCTCAGCCTCCACCAAGGGCCCCATCGGTCTTCCCCCTGGCACCCTC CCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGTC CCCAAATCTTGTGACAAAACTCACACATGCCCACCGTGCCCAGCACCTGAACTCCTGGGGGGC TGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGT CTCCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGGCCAAAGGGCAGCCCCGA

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Inventor: Dawn Windsor-Hines et al. Title: INDUCING TOLERANCE IN PRIMATES

GGAGAACAACTACAAGACCACGCCTCCCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCA CCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGGAGAGCAATGGGCAGCC AGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGGAACGTCTTCTCATGCTCCGTGATGCATGA GGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGA

Title: INDUCING TOLERANCE IN PRIMATES

Docket No.: TLN-022 Inventor: Dawn Windsor-Hines et al.

## TRX1 Heavy Chain aglycosyl mut Amino Acid Sequence with CDRs Highlighted

**FIGURE 4F** 

#### With leader sequence:

TKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSS DVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE YPGSGSSYYNEKFKGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARSGDGSRFVYWGQGTLVTVSSAS KTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFF LGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV MEWIWIFLLILSGTRGVQSQVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMGEI LYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

### Without leader sequence:

EVHNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPP AALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKV QVQLVQSGAEVKKPGASVKVSCKASGYTFT**AYVIS**WVRQAPGQGLEWMG**EIYPGSGSSYYNEKFKG**RVT SRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFS MTRDTSTSTVYMELSSLRSEDTAVYYCAR**SGDGSRFVY**WGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGT DKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGV CSVMHEALHNHYTQKSLSLSPGK

Inventor: Dawn Windsor-Hines et al.

Title: INDUCING TOLERANCE TO PROTEINS IN PRIMATES

Docket No.: TLN-022

#### HEAVY CHAIN

Sequence Range: 1 to 1356

FIGURE 5

240 TAC Y> 300 CAC H> 120 GCT A> 180 TAT Y> 360 TCC S> 420 TCT S> CTA AGA ACC ACA 170 T AGT AAC A 290 7 TGT GCA A. C , 410 C TCC AAG AV S AAG AAC K N 350 CTA GTC TGG GTT W V AGG R GGA AAC GGT TCT TAC ACA GGC ATG A GAC AAT O TAT GAT TTT F TAC AGG R 0 0 0 GTT ATT TCC ACA TGG W 270 GAC 150 CTG AGT S 210 ATC I TCC 450 GTC V ACC GAT D ы TTC GCT CGA R CTG AGA GGT 囧 Ö ATG AAC M N ACA GCG T A 70 GCT GTG GCA TCT GGT o g 999 19 GTT TGT GAC GAT ၁၅၅ CCC S

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Title: INDUCING TOLERANCE IN PRIMATES

600 CAG Q>	660 GAG E>	720 GGG G>	780 ACC T>	840 AAC N>	900 TAC Y>	960 GGC G>	1020 ACC ATC T I>	1080 CGG GAT R D>	1140 GAC D>	1200
ACC	GTT	$_{ m L}^{ m CTG}$	CGG R	TTC	CAG	AAT	ACC	090 %	AGC	
වුදුර	AAA K	CIC	TCC	AAG K	GAG	CTG	AAA K	TCC	CCC	
590 TTG L	650 GAC AAG D K	710 GAA E	770 ATG ATC M I	830 GTC V	890 CGG GAG R E	950 TGG W	1010 ATC GAG I E	1070 3C CCA	1130 C TAT	1190
AGC S	GAC D	CCT P		8 GAG E		GAC D	10 ATC I	10 CCC P	11 TTC F	11
AGC	GTG	GCA	CTC	CCT	CCG	CAG	CCC	CTG	වුදුර	
TCC	640 ACC AAG T K	700 TGC CCA C P	760 GAC ACC D T	820 A GAC	880 A AAG	940 'G CAC	1000 CCA GCC P A	ACC T	1120 GTC AAA V K	0
580 CCC TCC P S		70 TGC		82 GAA E	880 ACA AAG T K	94 CTG L	1000 CCA GC P /	1060 TAC ACC Y T	1120 GTC A2 V	1180
GTG V	AAC	CCG	AAG K	CAC	AAG K	GTC	CTC	GTG	CTG	
ACC	AGC	CCA	CCC	AGC	GCC	ACC	GCC	CAG	TGC	
570 GTG V	630 CCC P	690 TGC	750 AAA K	810 GTG V	870 AAT N	930 CTC L	990 AAA K	1050 . CCA . P	1110 ACC T	1170
GTG	AAG K	ACA	CCA	GAC	CAT H	GTC V	AAC	GAA E	r CTG L	
AGC	CAC	CAC	CCC	GTG V	GTG V	AGC	TCC	CGA R	AGC	
560 CTC AGC L S	620 GTG AAT V N	680 AAA ACT K T	740 TTC	800 GTG GTG V V	860 GTG GAG V E	920 GTC V	980 AAG GTC K V	1040 CAG CCC Q P	1100 CAG GTC Q V	1160
CTC		AAA K	CTO		grg V	GTG V	AAG K	1C CAG		11
TCC	AAC	GAC	TTC	TGC	විසි	CGT	TGC	වුවු	AAC	
550 C TAC	610 C TGC C	670 TCT TGT S C	730 TCA GTC S V	790 GTC ACA V T	850 'G GAC	910 G TAC	970 TAC AAG Y K	1030 GCC AAA A K	1090 ACC AAG T K	0
55 CTC L	61 ATC I	TCT	7.3 TCA S	75 GTC V	85 GTG V	91 ACG T	97 TAC Y	1030 GCC AZ A F	1090 ACC AJ T	1150
GGA	TAC Y	AAA K	CCG	GAG E	TAC	AGC	GAG E	AAA K	CTG	
TCA S	ACC	CCC	GGA	CCT	TGG W	AAC	AAG K	TCC	GAG	

App No.: Not Yet Assigned Doo Inventor: Dawn Windsor-Hines et al.
Title: INDUCING TOLERANCE IN PRIMATES Docket No.: TLN-022

ъ <u>,</u>	.260	AGG	%	320	TAC	Υ,			
д		AGC	တ	-	CAC	Ħ			
T		AAG	×		AAC	z			
H	20	GAC	Д	10	CAC	Ħ			
×	12	GTG	>	13	CTG	IJ			
¥		ACC	H		GCT	Ø			
Z	0	CTC	H	0	GAG	団			
Z	124	AAG	×	130	CAT	Ħ			
ы		AGC	တ		ATG	Σ		TGA	*
а		TAC	×		GTG	>		AAA	×
o	230	CIC	다	1290	TCC	ഗ	350	GGT	כי
Ö		TTC	Ĺ'n	_	$^{\mathrm{TGC}}$	U		SSS	Δ
z		TTC	Ĺtų		TCA	ഗ		$_{\rm ICI}$	ď
တ	220	TCC	ഗ	80	TIC	ĮΉ	340	CIG	Ë
田	1,3	gg	O	13	GTC	>	긤	TCC	ď
×		GAC	Ω		AAC	z		CIC	Ŀ
田	0	ICC	လ	0.0	GGG	ŋ	20	AGC	ď
>	121	GAC	Ω	12.	CAG	O	133	AAG	×
æ		CTG	ъ		CAG	o		CAG	C
н		$\mathtt{GTG}$	>		$_{\rm TGG}$	Z		ACG	E
	I A V E W E S N G Q P E N N Y K T T P P>	I A V E W E S N G Q P E N N Y K T T P P> 1210 1220 1230 1240 1250 1260	I A V E W E S N G Q P E N N Y K T T P P>  1210 1220 1230 1240 1250 1260  GTG CTG GAC TCC TTC TTC TTC TTC TAC AGC CTC ACC GTG GAC AAG AGC AGG	I A V E W E S N G Q P E N N Y K T T P P>  1210	1	1	1	1	1

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Title: INDUCING TOLERANCE IN PRIMATES

#### FIGURE 6

#### LIGHT CHAIN

Sequence Range: 1 to 648

	ATC I	CAG	ATG	ACC T	CAG	AGC		AGC	AGC		AGC .S	GCC		GTG V	
50 GAC D	AGA R	GTG V		ATC I				GGA G		80 CAG Q		ATT I			TAC Y>
	OO GCC A			CAG		AAG	CCA	GGT		GCT	CCA		CTG	L40 CTG L	
	150 AAT N		GAÇ D	ATT	TTG		ACG							AGC	
AGC S	GGT	200 AGC S	GGT G		GAC				ACC					CAG Q	
GAG E	GAC D				TAC	TAC	TGC C	TAT	CAG		AAC	AAC	GGG		
E 290		ATC I	GCC A 300	ACC T	TAC Y	TAC Y	TGC C LO GAA	TAT Y ATC	CAG Q	TAT Y 320 CGA	AAC N	AAC N	GGG G 330	Y GCA	Т>
E 290 TTC F 34	D GGC G 10 GTC	ATC I CAA Q	GCC A 300 GGG G	ACC T ACC T	TAC Y AAG K	TAC Y 31 GTG V CCA	TGC C LO GAA E 360 TCT	TAT Y  ATC I GAT	CAG Q AAA K GAG	TAT Y 320 CGA R CAG	AAC N ACT T 70 TTG	AAC N GTG V AAA	GGG G 330 GCT A	Y GCA A 880 GGA	T> CCA P>
E 290 TTC F 34 TCT S	GGC G 40 GTC V 390 TCT	ATC I CAA Q TTC F	GCC A 300 GGG G ATC I	ACC T  ACC T  S50 TTC F  40 TGC	TAC Y  AAG K  CCG P  00 CTG	TAC Y 33 GTG V CCA P	TGC C LO GAA E 360 TCT S	TAT Y  ATC I  GAT D  110 AAC	CAG Q AAA K GAG E	TAT Y 320 CGA R CAG Q	AAC N ACT T 70 TTG L 420 CCC	AAC N GTG V AAA K	GGG G 330 GCT A TCT S	GCA A 380 GGA G	T> CCA P> ACT T> 30 AAA

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490 500 510 520 AGT GTC ACA GAG CAG GAC AGC AAG GAC AGC ACC TAC AGC CTC AGC AGC Т Ε S S Т S L Q D K D Y S S> 540 550 560 570 530 ACC CTG ACG CTG AGC AAA GCA GAC TAC GAG AAA CAC AAA GTC TAC GCC Т  $\mathbf{L}$ Т L S K Α D Y Ε K Η K V Υ A> 590 600 610 580 620 TGC GAA GTC ACC CAT CAG GGC CTG AGC TCG CCC GTC ACA AAG AGC TTC Ε V Т Η Q G L S S Р V Т K F>

630 640 AAC AGG GGA GAG TGT TAG E C N R G